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U.S. APPLICATION NUMBER NO. 10/549,661	FIRST NAMED APPLICANT Kyung-Hee Park	ATTY. DOCKET NO. YPL-0173
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INTERNATIONAL APPLICATION NO. PCT/KR05/00465	
I.A. FILING DATE 02/19/2005	PRIORITY DATE 02/20/2004

Soonja Bae
Cantor Colburn
55 Griffin Road South
Bloomfield, CT 06002

RECEIVED

DEC 04 2006

CANTOR COLBURN LLP

CONFIRMATION NO. 2189

371 FORMALITIES LETTER



OC00000021391251

Date Mailed: 11/30/2006

NOTIFICATION TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE AND/OR AMINO ACID SEQUENCE DISCLOSURES

Applicant is given **TWO MONTHS FROM THE DATE OF THIS NOTICE** within which to file the items indicated below to avoid abandonment. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

- A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d).

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

- For Rules Interpretation, call (571) 272-0951
- For Patent Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.
- Send e-mail correspondence for Patent Software Program Help @ ebc@uspto.gov

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web.
<https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html>

For more information about EFS-Web please call the USPTO Electronic Business Center at 1-866-217-9197 or visit our website at <http://www.uspto.gov/ebc>.

DOCKETED	
Due:	January 30
Item:	2-month
Initials:	jh On 12/16/06

* NO extensions *

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

MAMIE P PERSON

Telephone: (703) 308-9140 EXT 227

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/549,661	PCT/KR05/00465	YPL-0173

FORM PCT/DO/EO/922 (371 Formalities Notice)

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/549,661
Source: PG/10
Date Processed by STIC: 10/4/05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/efc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05



PCT

RAW SEQUENCE LISTING

DATE: 10/04/2005

PATENT APPLICATION: US/10/549,661

TIME: 09:53:20

Input Set : A:\SYQ96025d1d_SI21268US_Seq List.txt

Output Set: N:\CRF4\10042005\J549661.raw

1 <110> APPLICANT: Samsung Electronics Co. Ltd.

3 <120> TITLE OF INVENTION: A polynucleotide associated with a colon cancer comprising
single
4 nucleotide polymorphism, microarray and diagnostic kit comprising
5 the same and method for diagnosing a colon cancer using the
6 polynucleotide

8 <130> FILE REFERENCE: PN060547

C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/549,661

C--> 10 <141> CURRENT FILING DATE: 2005-09-16

10 <160> NUMBER OF SEQ ID NOS: 48

12 <170> SOFTWARE: KopatentIn 1.71

14 <210> SEQ ID NO: 1

15 <211> LENGTH: 201

16 <212> TYPE: DNA

17 <213> ORGANISM: Homo sapiens

19 <220> FEATURE:

20 <221> NAME/KEY: variation

21 <222> LOCATION: (101)

22 <223> OTHER INFORMATION: n=A or C, polymorphic site

25 <400> SEQUENCE: 1

26 tacattactg tattgtatac attttgtcta tttcttcttt gattttgttt ttgtttttat 60

W--> 28 aattatttca ggtgtgggga aaaattctgt ccttgatact ncatcttgtc cagaactgga 120

30 agagctcatt atttctttat ttgtactgtt tttatctatt catccatagt gttctcaaca 180

32 gagctatcaa aagtattatc a 201

35 <210> SEQ ID NO: 2

36 <211> LENGTH: 201

37 <212> TYPE: DNA

38 <213> ORGANISM: Homo sapiens

40 <220> FEATURE:

41 <221> NAME/KEY: variation

42 <222> LOCATION: (101)

43 <223> OTHER INFORMATION: n=A or G, polymorphic site

46 <400> SEQUENCE: 2

47 tctataccac agtagtggtg atctcaagag cttagcatgt tggcttaaag acatccaggg 60

W--> 49 atgaggtggt ggagtcagat tgagtttgaa tcttagctct ncttgatta ctgtgttata 120

51 ttggccaagt atttaacctc tctgaaatag gttttctcag ggctgtgaag tttggaagat 180

53 acataaaagc ccaaagaaaa a 201

56 <210> SEQ ID NO: 3

57 <211> LENGTH: 201

58 <212> TYPE: DNA

59 <213> ORGANISM: Homo sapiens

61 <220> FEATURE:

62 <221> NAME/KEY: variation

63 <222> LOCATION: (101)

Does Not Comply
Affected Diskette Needs

P.3

RAW SEQUENCE LISTING

DATE: 10/04/2005

PATENT APPLICATION: US/10/549,661

TIME: 09:53:20

Input Set : A:\SYQ96025d1d_SI21268US_Seq List.txt

Output Set: N:\CRF4\10042005\J549661.raw

```

64 <223> OTHER INFORMATION: n=A or C, polymorphic site
67 <400> SEQUENCE: 3
68 ccttaagggtg gacagaaaat gaattgtttc cttcttacca tctgttattg tttttgcctg
W--> 70 aaggcctgac tgccttccta ctccttaata aacaaagggg nattctattg accaattcat 60
72 tttcaaagag attttaaaag gcattaagca atcaattctc acatagtgtc caaattgagt 120
74 ctctcattca ttctcttgcc t 180
77 <210> SEQ ID NO: 4 201
78 <211> LENGTH: 201
79 <212> TYPE: DNA
80 <213> ORGANISM: Homo sapiens
82 <220> FEATURE:
83 <221> NAME/KEY: variation
84 <222> LOCATION: (101)
85 <223> OTHER INFORMATION: n=G or C, polymorphic site
88 <400> SEQUENCE: 4
89 tgacctcagg tgatccaccc acctcgccat cccaaagtgc tgggattaca ggtgtgagcc 60
W--> 91 accacaccag gccttgggta ccatgccttg aaccatttca ntgccttttg gagatggatg 120
93 agttgccagc atccttctta gatccctata tatttgttta tttattgaac aaatacatat 180
95 taacttatct ttttgaccaa a 201
98 <210> SEQ ID NO: 5
99 <211> LENGTH: 201
100 <212> TYPE: DNA
101 <213> ORGANISM: Homo sapiens
103 <220> FEATURE:
104 <221> NAME/KEY: variation
105 <222> LOCATION: (101)
106 <223> OTHER INFORMATION: n=G or T, polymorphic site
109 <400> SEQUENCE: 5
110 cccaggattg gaaatgatgg atgctttcca ggggccccga tccatcatca gatgaatacg 60
W--> 112 cagcccccct cccaaggaag ctccctgggtc attgagatgc ntaattctct ccttattttc 120
114 attactgttt ctggtttgta tggattattt ttcttcagta atctgggctt tacatgactg 180
116 aataagaaaa tcatttggtc a 201
119 <210> SEQ ID NO: 6
120 <211> LENGTH: 201
121 <212> TYPE: DNA
122 <213> ORGANISM: Homo sapiens
124 <220> FEATURE:
125 <221> NAME/KEY: variation
126 <222> LOCATION: (101)
127 <223> OTHER INFORMATION: n=A or T, polymorphic site
130 <400> SEQUENCE: 6
131 atttctgtgc tgtgataaat gtgtcccaat atttgtcttt tgggtgttgt tgttgagaat 60
W--> 133 cattttctcat gttgggaaat gtgaagtcaa atagtgtgac nggacttget gaatgattga 120
135 gtcaaceaca aatggtattg tcaaccatgg ctggtgaatt aatgagaaca attaaaactc 180
137 atttttcaga ggtcaaaaaga t 201
140 <210> SEQ ID NO: 7
141 <211> LENGTH: 201
142 <212> TYPE: DNA
143 <213> ORGANISM: Homo sapiens

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RAW SEQUENCE LISTING

DATE: 10/04/2005

PATENT APPLICATION: US/10/549,661

TIME: 09:53:20

Input Set : A:\SYQ96025dld_SI21268US_Seq List.txt

Output Set: N:\CRF4\10042005\J549661.raw

145 <220> FEATURE:
 146 <221> NAME/KEY: variation
 147 <222> LOCATION: (101)
 148 <223> OTHER INFORMATION: n=G or T, polymorphic site
 151 <400> SEQUENCE: 7
 152 attagctaaa cagtttaatg atgatctgcc aagaaattga tgtcagcagt tagaaaacta 60
 W--> 154 aagtcctttt ttatgcagag acagcacagt tggtaaaatt nttatagttg acaagttgga 120
 156 aagcagtga tgtctctgac aagacttcag ctctgtggga agtggttgga aagaaatgga 180
 158 gtgatagtgt ttgttggcat t 201
 161 <210> SEQ ID NO: 8
 162 <211> LENGTH: 201
 163 <212> TYPE: DNA
 164 <213> ORGANISM: Homo sapiens
 166 <220> FEATURE:
 167 <221> NAME/KEY: variation
 168 <222> LOCATION: (101)
 169 <223> OTHER INFORMATION: n=A or C, polymorphic site
 172 <400> SEQUENCE: 8
 W--> 173 tgctcatgta ctttatggat ttgaccacac tcattctgga caaanctca ggaggatctc 60
 175 ttcagggaca tgatgcagtt ttgagactgg tggagattcg nacggatga agcatttgga 120
 177 ttcttggagt tttaggtttc taaattttga gctccaaggg tatcacacag tagctctcat 180
 179 ttaagtgaag cttctcatgt t 201
 182 <210> SEQ ID NO: 9
 183 <211> LENGTH: 201
 184 <212> TYPE: DNA
 185 <213> ORGANISM: Homo sapiens
 187 <220> FEATURE:
 188 <221> NAME/KEY: variation
 189 <222> LOCATION: (101)
 190 <223> OTHER INFORMATION: n=G or T, polymorphic site
 193 <400> SEQUENCE: 9
 194 aatatgatgt cttggatttg cttcaaaata atacaagaaa agggtttgac ttttggtcag 60
 W--> 196 tatatagatg agtcatgact gaccatgggg tgacaattgt ngaagctgag ttaggtaccc 120
 198 agaggttcgt tataaatatc tgtctatgtt aatctgcaat atgtctgaca ttttttataa 180
 200 ttaaaacttc ttttgaaaag a 201
 203 <210> SEQ ID NO: 10
 204 <211> LENGTH: 201
 205 <212> TYPE: DNA
 206 <213> ORGANISM: Homo sapiens
 208 <220> FEATURE:
 209 <221> NAME/KEY: variation
 210 <222> LOCATION: (101)
 211 <223> OTHER INFORMATION: n=G or T, polymorphic site
 214 <400> SEQUENCE: 10
 215 attaaaaaac ctgtattttt ggatgtattt ttagaaaaac agatttacag gaaacaaacc 60
 W--> 217 aaacaaaaag acttgtggta caagaaaatt agaaaatata ntatatttaa aatggacgtg 120
 219 ttagcttgct ccaggtaaac tcagttcaaa atatgggata aaagagattt tacttttaac 180
 221 ttcaaacagc tagagaatga t 201
 224 <210> SEQ ID NO: 11

What about 'n' at location 45?

RAW SEQUENCE LISTING

DATE: 10/04/2005

PATENT APPLICATION: US/10/549,661

TIME: 09:53:20

Input Set : A:\SYQ96025d1d_SI21268US_Seq List.txt

Output Set: N:\CRF4\10042005\J549661.raw

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225 <211> LENGTH: 201
226 <212> TYPE: DNA
227 <213> ORGANISM: Homo sapiens
229 <220> FEATURE:
230 <221> NAME/KEY: variation
231 <222> LOCATION: (101)
232 <223> OTHER INFORMATION: n=A or G, polymorphic site
235 <400> SEQUENCE: 11
236 aattgtaat tactttgatt aaattaattt aaaacttggc agtctgtgga gacatttttg      60
W--> 238 attgtagag cttggagggg ccatccgtgg gaagaggcca nggatgctgc tggaaaccta      120
240 caatgccag gacagccctc aacaaaaaat gttctggctt caaatgtcaa tagctctgag      180
242 attgagaaac cctgttatag t                                          201
245 <210> SEQ ID NO: 12
246 <211> LENGTH: 201
247 <212> TYPE: DNA
248 <213> ORGANISM: Homo sapiens
250 <220> FEATURE:
251 <221> NAME/KEY: variation
252 <222> LOCATION: (101)
253 <223> OTHER INFORMATION: n=A or G, polymorphic site
256 <400> SEQUENCE: 12
257 aagcagaaga tgaccagtct gaggtctcag ggaagaaatc tgtgaaggga gtgtctaaga      60
W--> 259 aatatgttcc tccagcttg gttccagtac attatggtat naactttggc tgctgcttcc      120
261 tcagcatgaa ctgtttctct tttctctggt cttggataac cctgcttatt ttcacatgt      180
263 agatgaaaca gaagctgagc g                                          201
266 <210> SEQ ID NO: 13
267 <211> LENGTH: 30
268 <212> TYPE: DNA
269 <213> ORGANISM: Artificial Sequence
271 <220> FEATURE:
272 <223> OTHER INFORMATION: primer
275 <400> SEQUENCE: 13
276 acgttgatg gagctcttcc agttctggac      30
279 <210> SEQ ID NO: 14
280 <211> LENGTH: 30
281 <212> TYPE: DNA
282 <213> ORGANISM: Artificial Sequence
284 <220> FEATURE:
285 <223> OTHER INFORMATION: primer
288 <400> SEQUENCE: 14
289 acgttgatg tcaggtgtgg ggaaaaattc      30
292 <210> SEQ ID NO: 15
293 <211> LENGTH: 19
294 <212> TYPE: DNA
295 <213> ORGANISM: Artificial Sequence
297 <220> FEATURE:
298 <223> OTHER INFORMATION: primer
301 <400> SEQUENCE: 15
302 tccagttctg gacaagatg      19

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RAW SEQUENCE LISTING

DATE: 10/04/2005

PATENT APPLICATION: US/10/549,661

TIME: 09:53:20

Input Set : A:\SYQ96025d1d_SI21268US_Seq List.txt

Output Set: N:\CRF4\10042005\J549661.raw

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305 <210> SEQ ID NO: 16
306 <211> LENGTH: 30
307 <212> TYPE: DNA
308 <213> ORGANISM: Artificial Sequence
310 <220> FEATURE:
311 <223> OTHER INFORMATION: primer
314 <400> SEQUENCE: 16
315 acgttggatg aaagacatcc agggatgagg          30
318 <210> SEQ ID NO: 17
319 <211> LENGTH: 30
320 <212> TYPE: DNA
321 <213> ORGANISM: Artificial Sequence
323 <220> FEATURE:
324 <223> OTHER INFORMATION: primer
327 <400> SEQUENCE: 17
328 acgttggatg acttggccaa gataacacag          30
331 <210> SEQ ID NO: 18
332 <211> LENGTH: 20
333 <212> TYPE: DNA
334 <213> ORGANISM: Artificial Sequence
336 <220> FEATURE:
337 <223> OTHER INFORMATION: primer
340 <400> SEQUENCE: 18
341 tgagtttgaa tcttagctct          20
344 <210> SEQ ID NO: 19
345 <211> LENGTH: 30
346 <212> TYPE: DNA
347 <213> ORGANISM: Artificial Sequence
349 <220> FEATURE:
350 <223> OTHER INFORMATION: primer
353 <400> SEQUENCE: 19
354 acgttggatg tggacactat gtgagaattg          30
357 <210> SEQ ID NO: 20
358 <211> LENGTH: 31
359 <212> TYPE: DNA
360 <213> ORGANISM: Artificial Sequence
362 <220> FEATURE:
363 <223> OTHER INFORMATION: primer
366 <400> SEQUENCE: 20
367 acgttggatg ccttcctact ccctaataaa c          31
370 <210> SEQ ID NO: 21
371 <211> LENGTH: 24
372 <212> TYPE: DNA
373 <213> ORGANISM: Artificial Sequence
375 <220> FEATURE:
376 <223> OTHER INFORMATION: primer
379 <400> SEQUENCE: 21
380 tgaaaatgaa ttggtcaata gaat          24
383 <210> SEQ ID NO: 22

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/549,661

DATE: 10/04/2005
TIME: 09:53:21

Input Set : A:\SYQ96025d1d_SI21268US_Seq List.txt
Output Set: N:\CRF4\10042005\J549661.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 101
Seq#:2; N Pos. 101
Seq#:3; N Pos. 101
Seq#:4; N Pos. 101
Seq#:5; N Pos. 101
Seq#:6; N Pos. 101
Seq#:7; N Pos. 101
Seq#:8; N Pos. 45, 101
Seq#:9; N Pos. 101
Seq#:10; N Pos. 101
Seq#:11; N Pos. 101
Seq#:12; N Pos. 101

VERIFICATION SUMMARY

DATE: 10/04/2005

PATENT APPLICATION: US/10/549,661

TIME: 09:53:21

Input Set : A:\SYQ96025d1d_SI21268US_Seq List.txt

Output Set: N:\CRF4\10042005\J549661.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:28 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:60
L:49 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:60
L:70 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:60
L:91 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:60
L:112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:60
L:133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:60
L:154 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:60
L:173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
M:341 Repeated in SeqNo=8
L:196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:60
L:217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:60
L:238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:60
L:259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:60